INTERNATIONAL SEARCH REPORT

International application No.

PCT/US03/11689

A. CLASSIFICATION OF SUBJECT MATTER IPC(7) : H01L 31/0256, 31/04, 31/18 US CL : 136/163, 152; 257/40, 431, 461; 438/82 According to International Patent Classification (IPC) or to both national classification and IPC B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) U.S.: 136/163, 152; 257/40, 431, 461; 438/82 Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)			
C. DOCT	UMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where ap	Relevant to claim No.	
Y	US 5,682,043 A (PEI et al) 28 October 1997 (28.10.1	1-72	
Y	example 1 at columns 10-12. US 5,331,183 A (SARICIFTCI et al) 19 July 1994 (19.07.1994), column 6, lines 25-40.		1-72
A	US 4,488,943 A (SKOTHEIM) 18 December 1984 (18.12.1984).		1-72
A	US 5,670,791 A (HALLS et al) 23 September 1997 (1-72	
A	US 5,986,206 A (KAMBE et al) 16 November 1999	1-72 1-72	
Further documents are listed in the continuation of Box C. See patent family annex.			
Special categories of cited documents:			cation but cited to understand the
of partice "E" earlier a	of particular relevance "X" document of particular relevance; the considered novel or cannot be considered novel or cannot b		claimed invention cannot be
specified) considered to involve an invent combined with one or more oth		"Y" document of particular relevance; the considered to involve an inventive ste combined with one or more other such being obvious to a person skilled in the control of t	p when the document is h documents, such combination
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priority date claimed			
Date of the actual completion of the international search Date of mailing of the international search 17 JUL 2003:			
20 June 2003 (20.06.2003) Name and mailing address of the ISA/US Authorized difficer			
Ma Co P.O Al	all Stop PCT, Attn: ISA/US ommissioner for Patents O. Box 1450 exandria, Virginia 22313-1450 lo. (703)305-3230	Telephone No. 703-308-0661	

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